

Figure 1

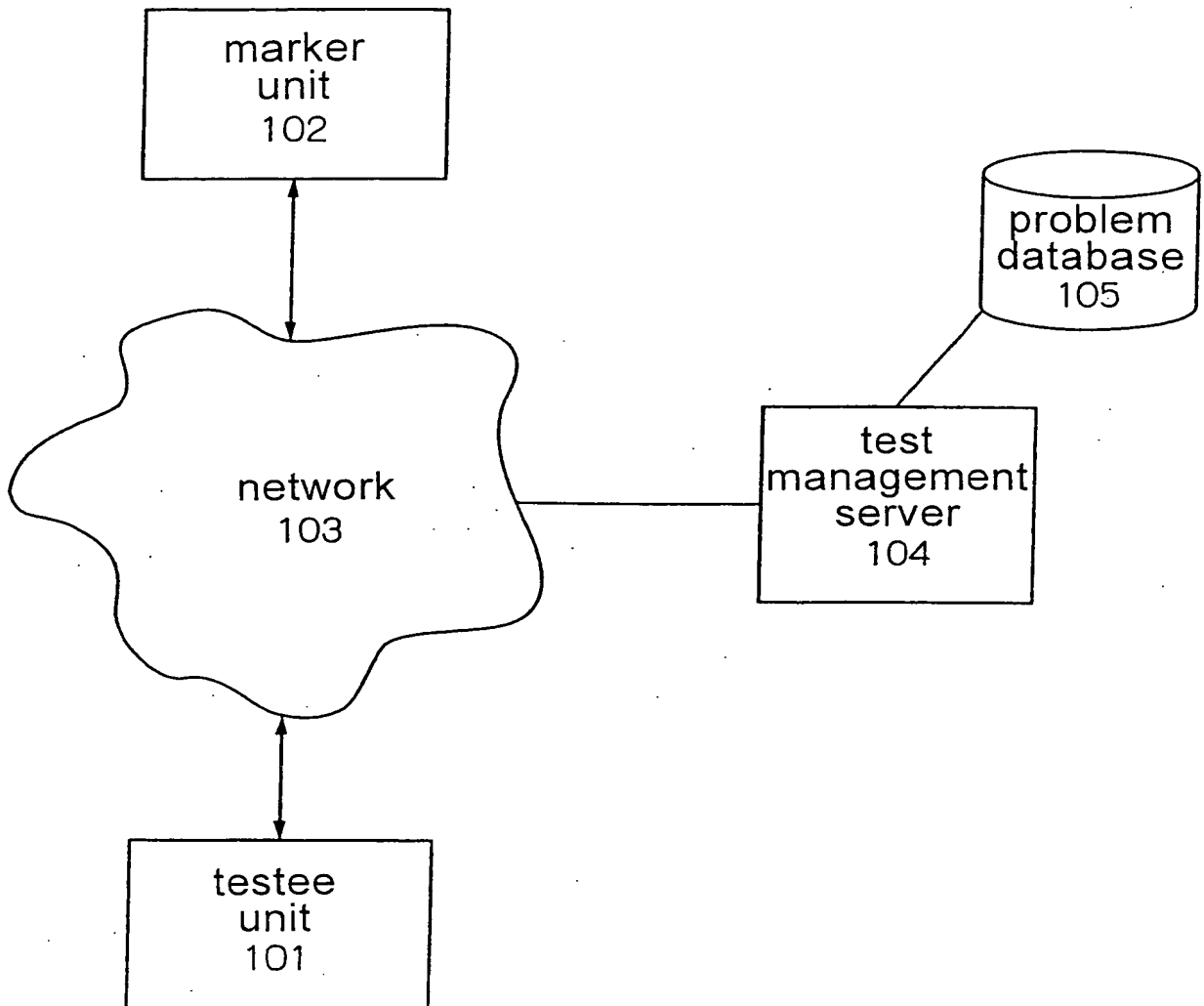


Figure 2

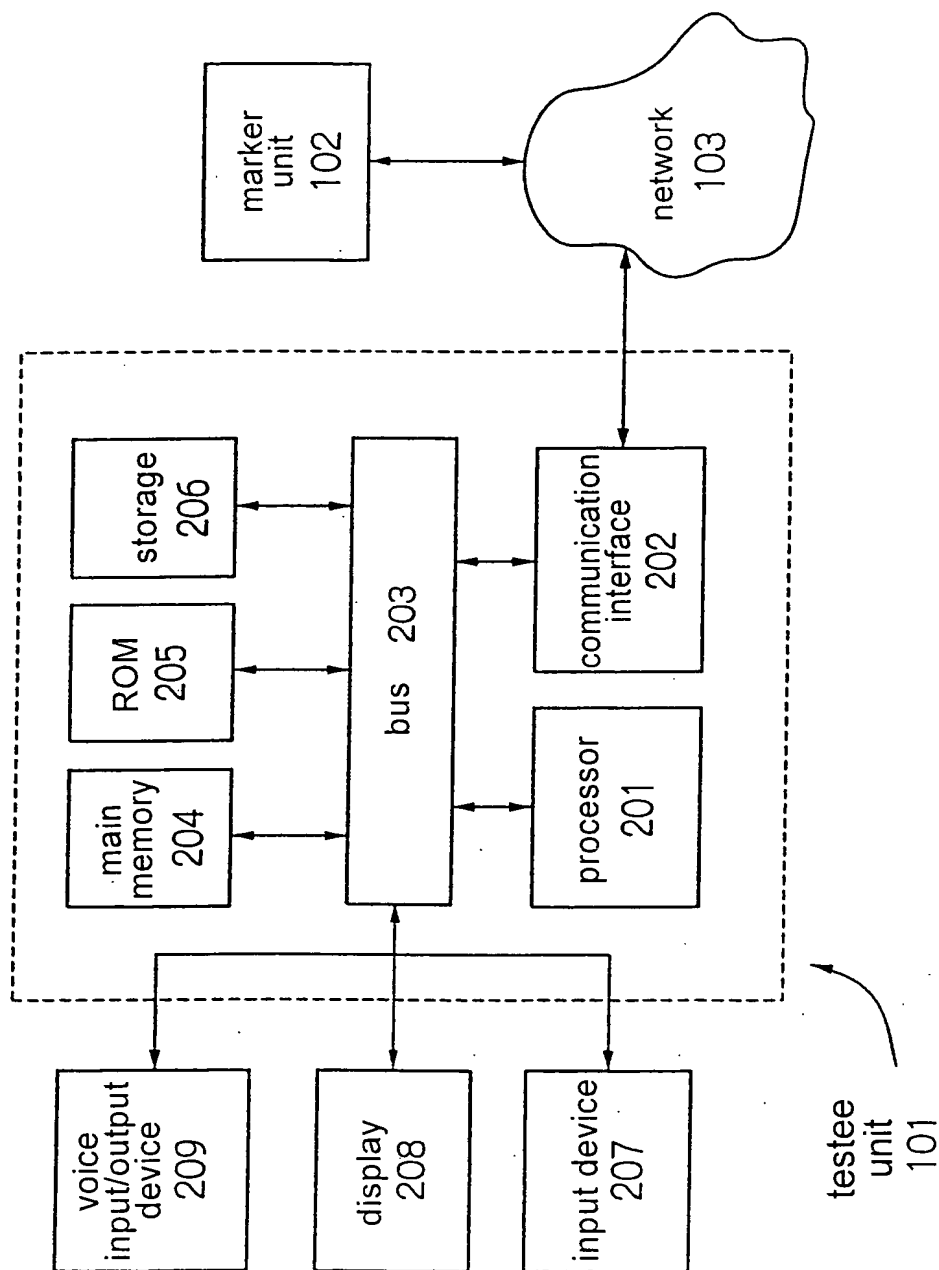
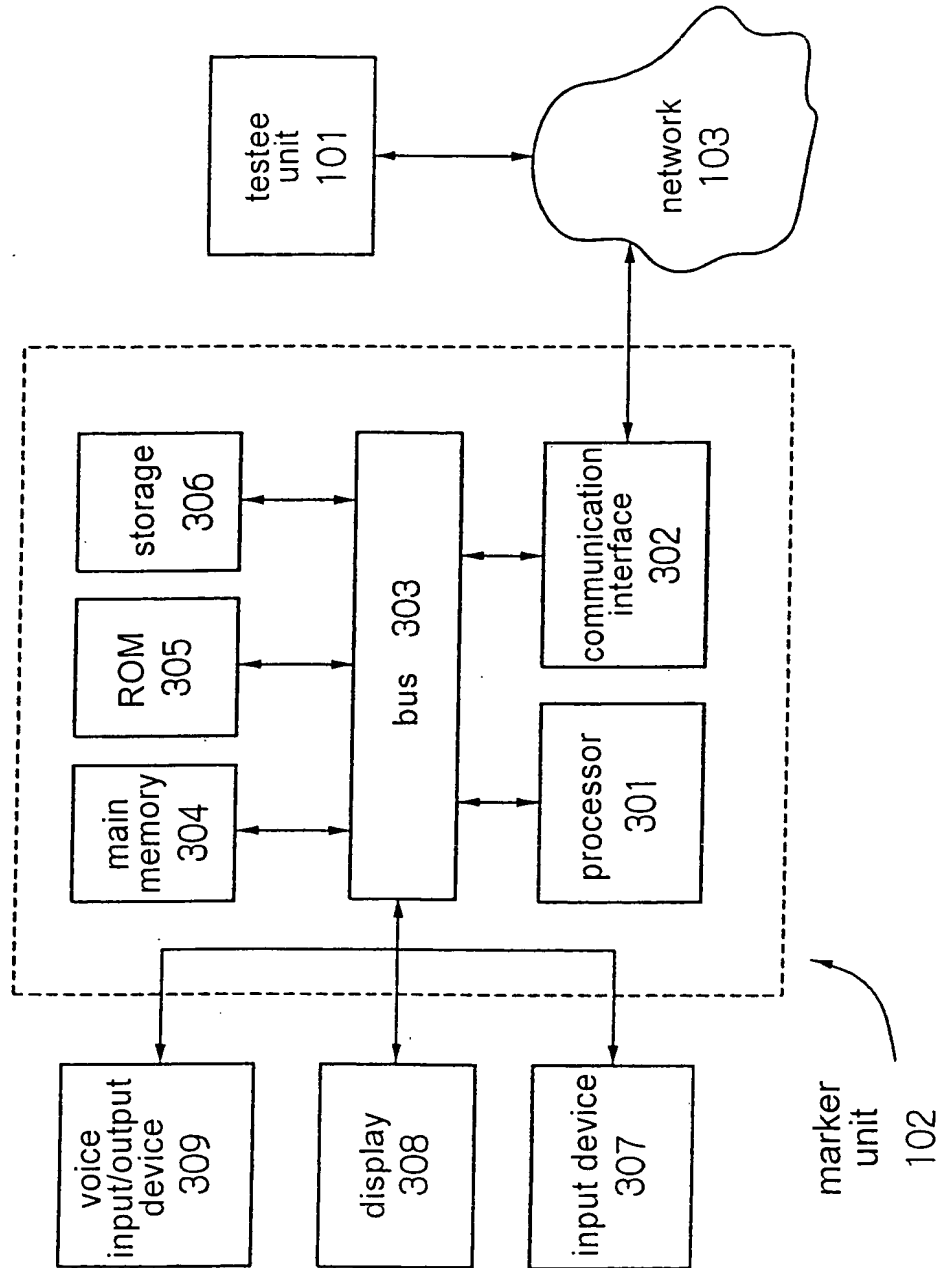
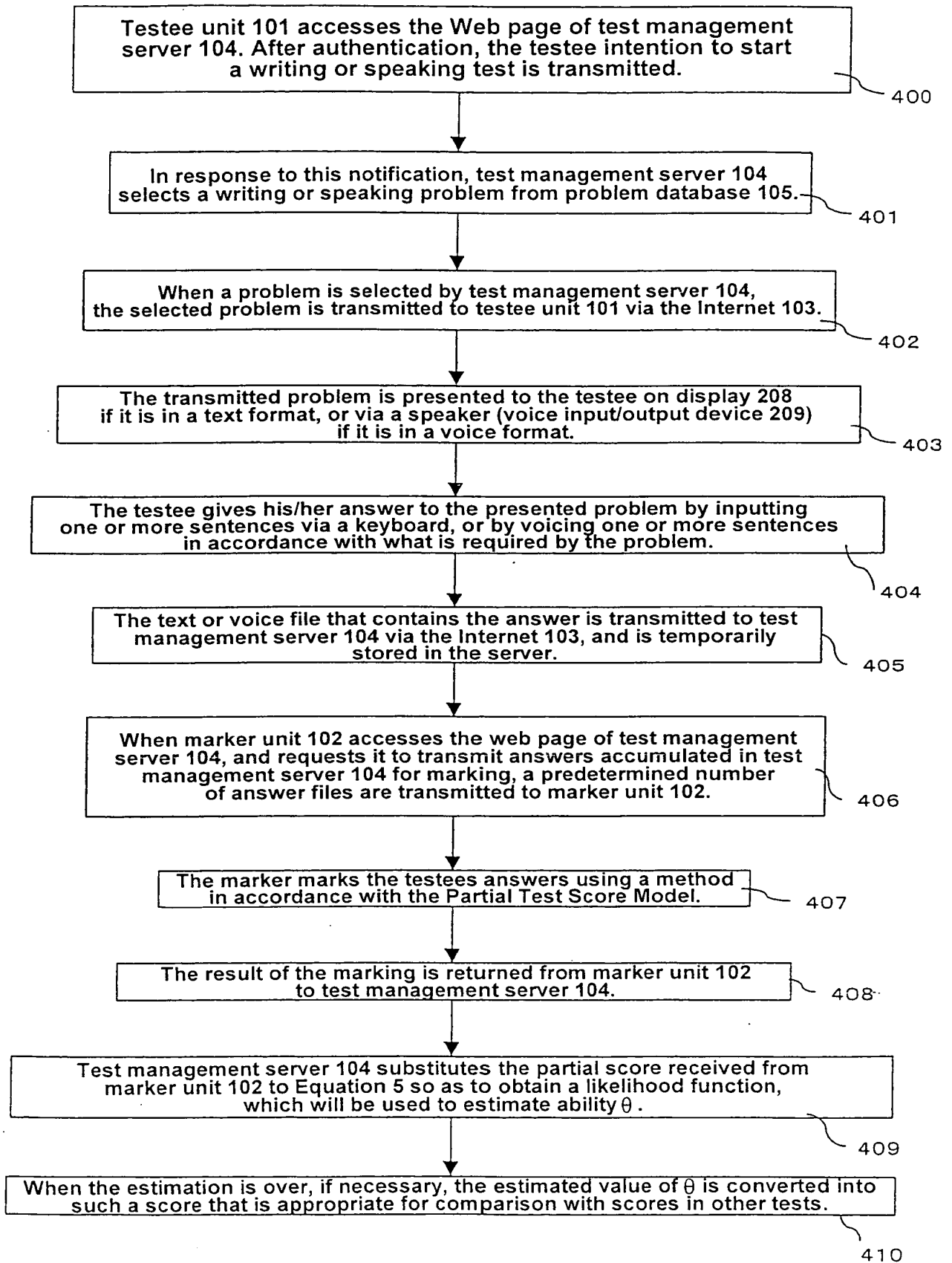


Figure 3



10/529263

Figure 4

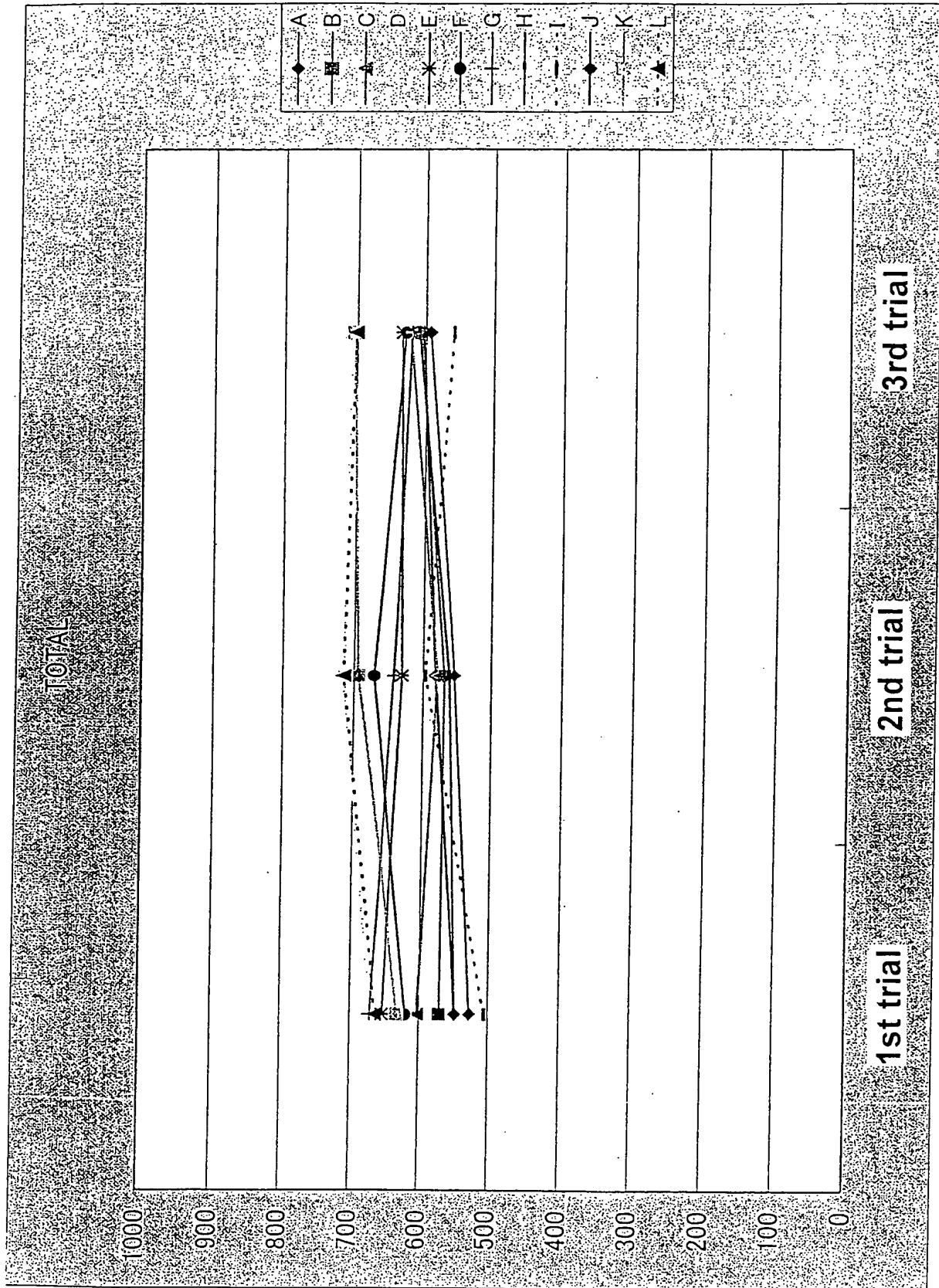


**Figure 5**

	average of 1st trial	average of 2nd trial	average of 3rd trial	variance
listening (250 pts.)	154. 2	160. 8	158. 2	6. 6
reading (250 pts.)	158. 5	166. 9	177. 0	18. 5
writing (250 pts.)	147. 1	150. 9	154. 8	7. 7
speaking (250 pts.)	142. 1	147. 5	142. 3	5. 4
total score (1000 pts.)	601. 8	625. 9	632. 3	30. 5

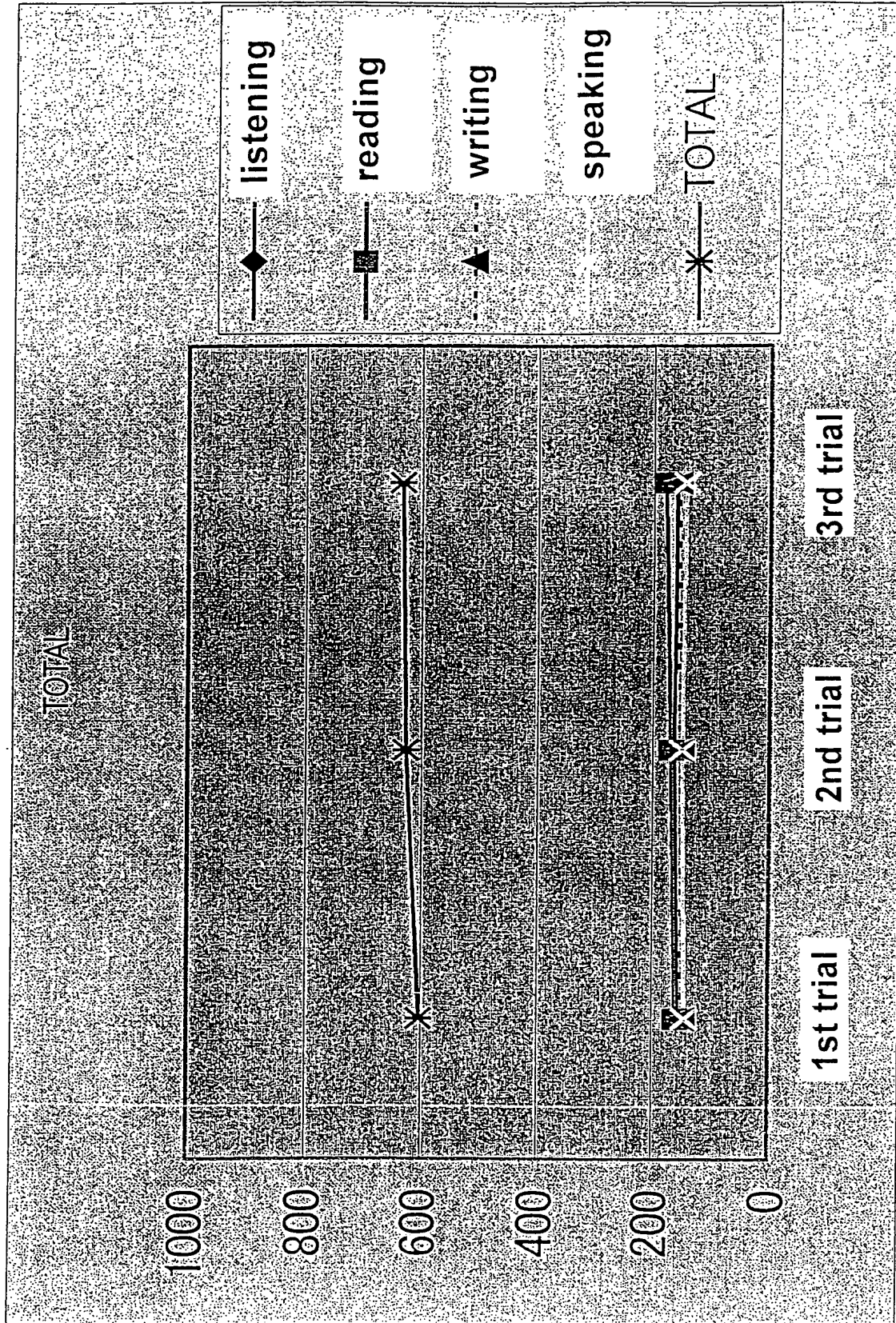
10/529263

Figure 6 a



10/529263

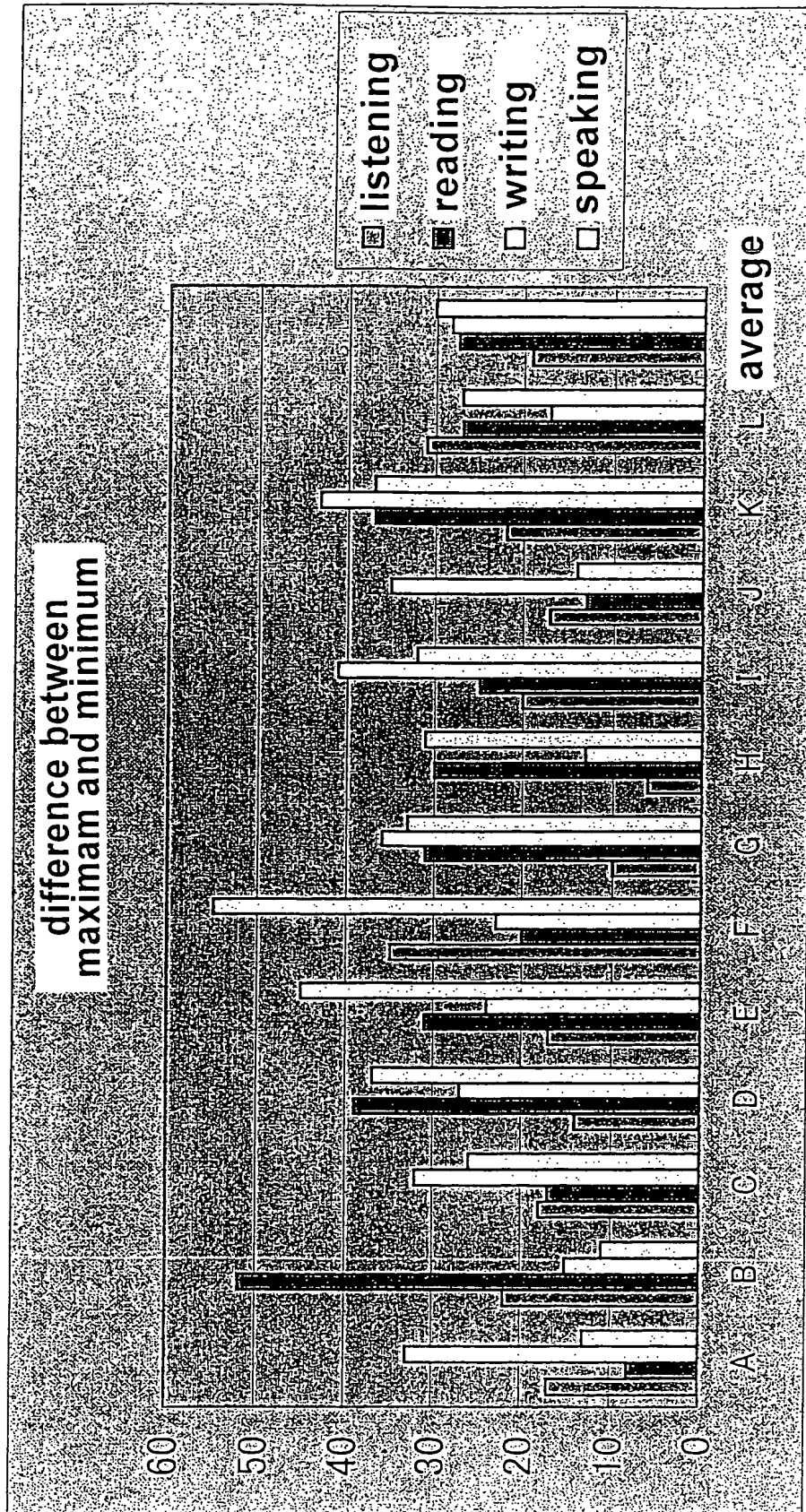
Figure 6 b



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10/529263

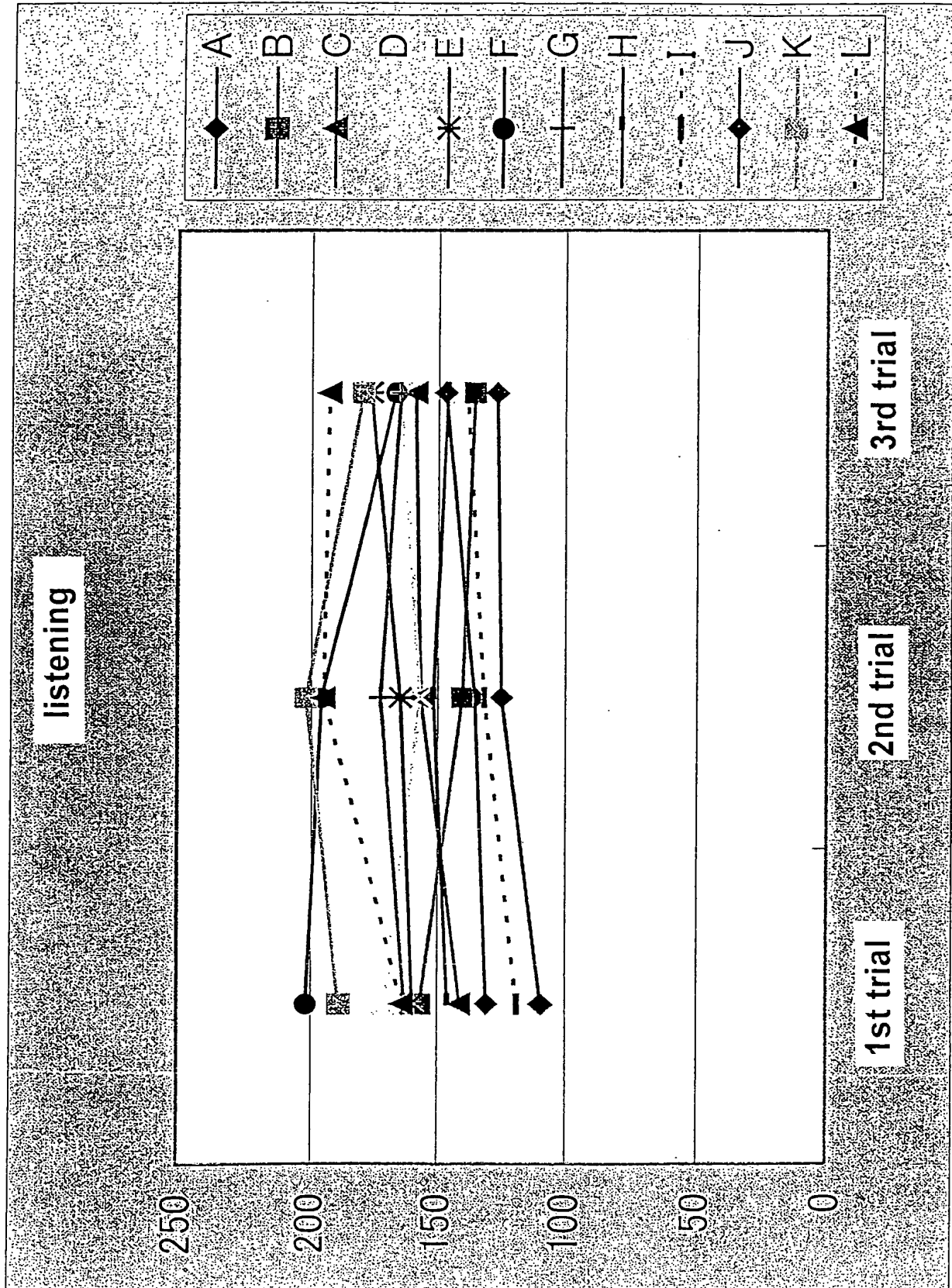
Figure 6 c





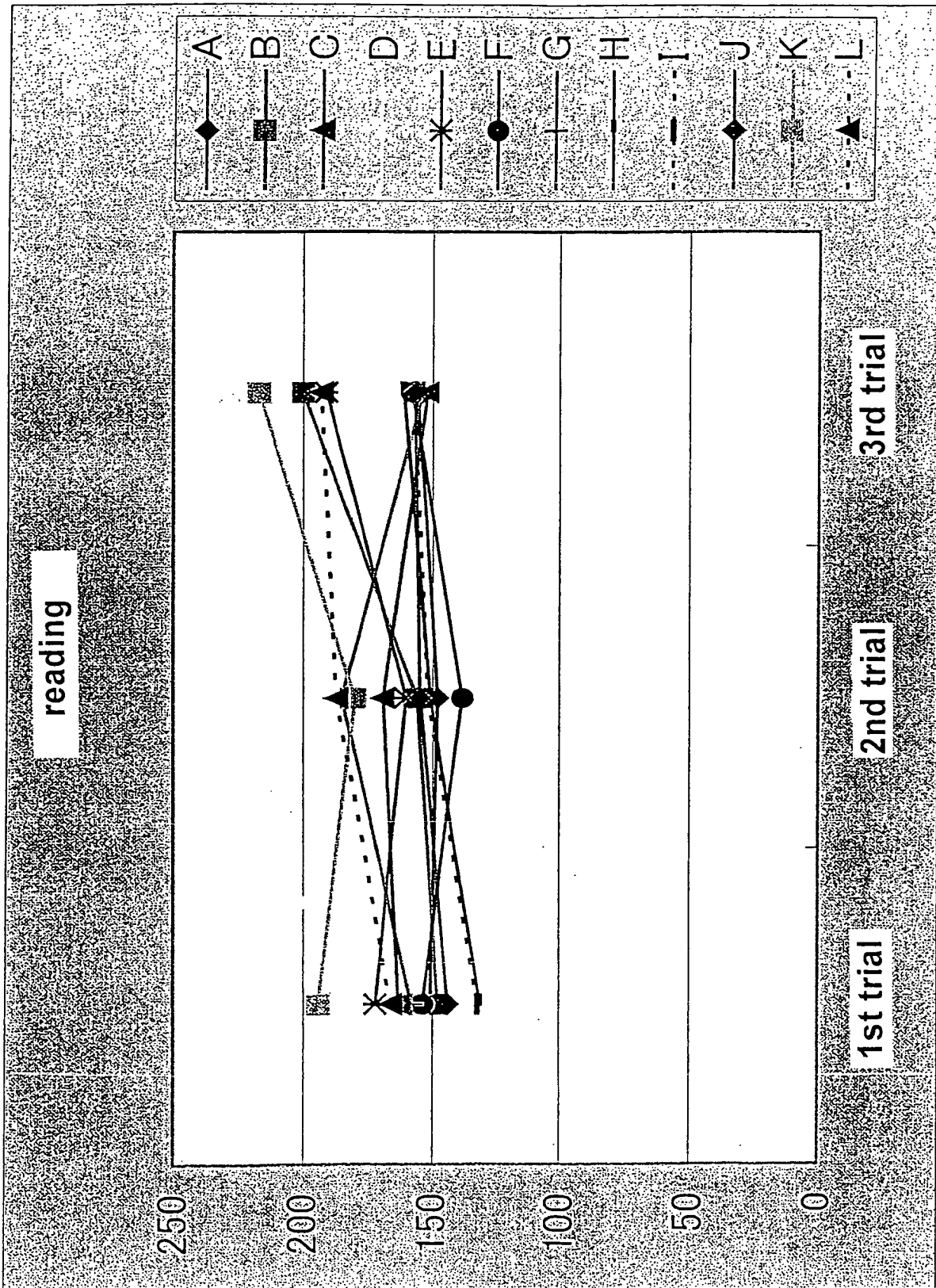
10/529263

Figure 6 d



10/529263

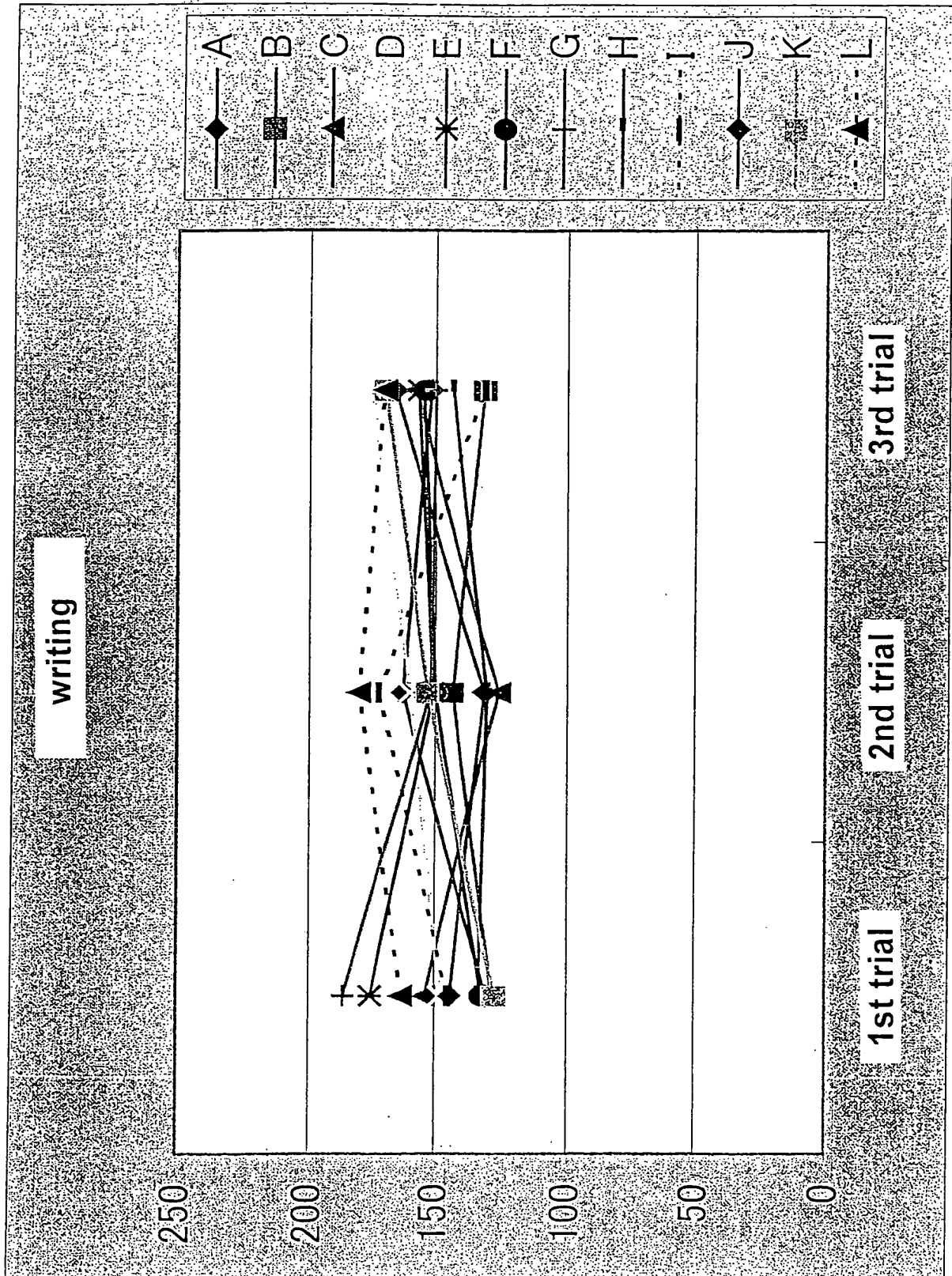
Figure 6 e



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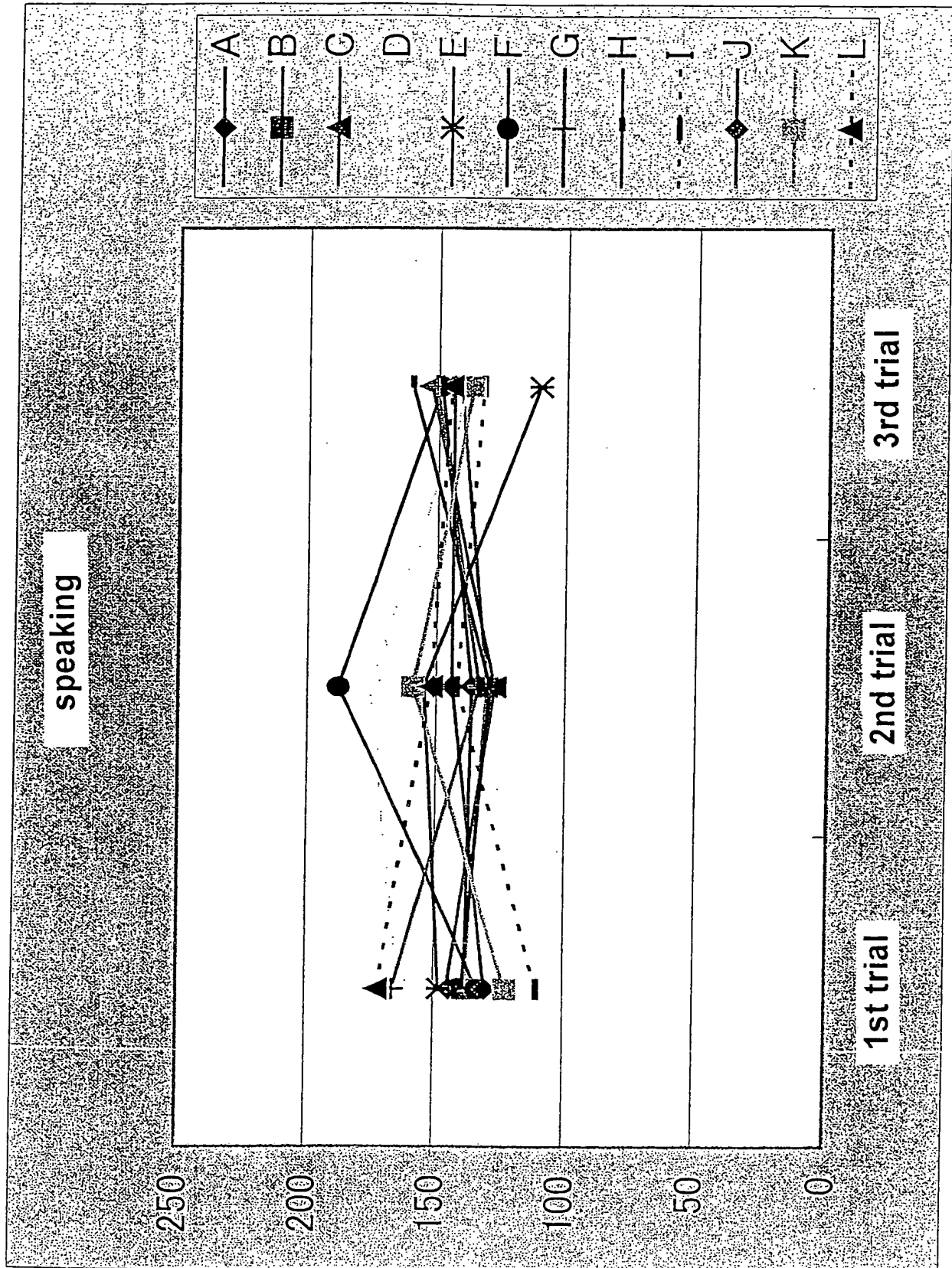
10/529263

Fig. 6 f



10/529263

Figure 6 g



10/529263

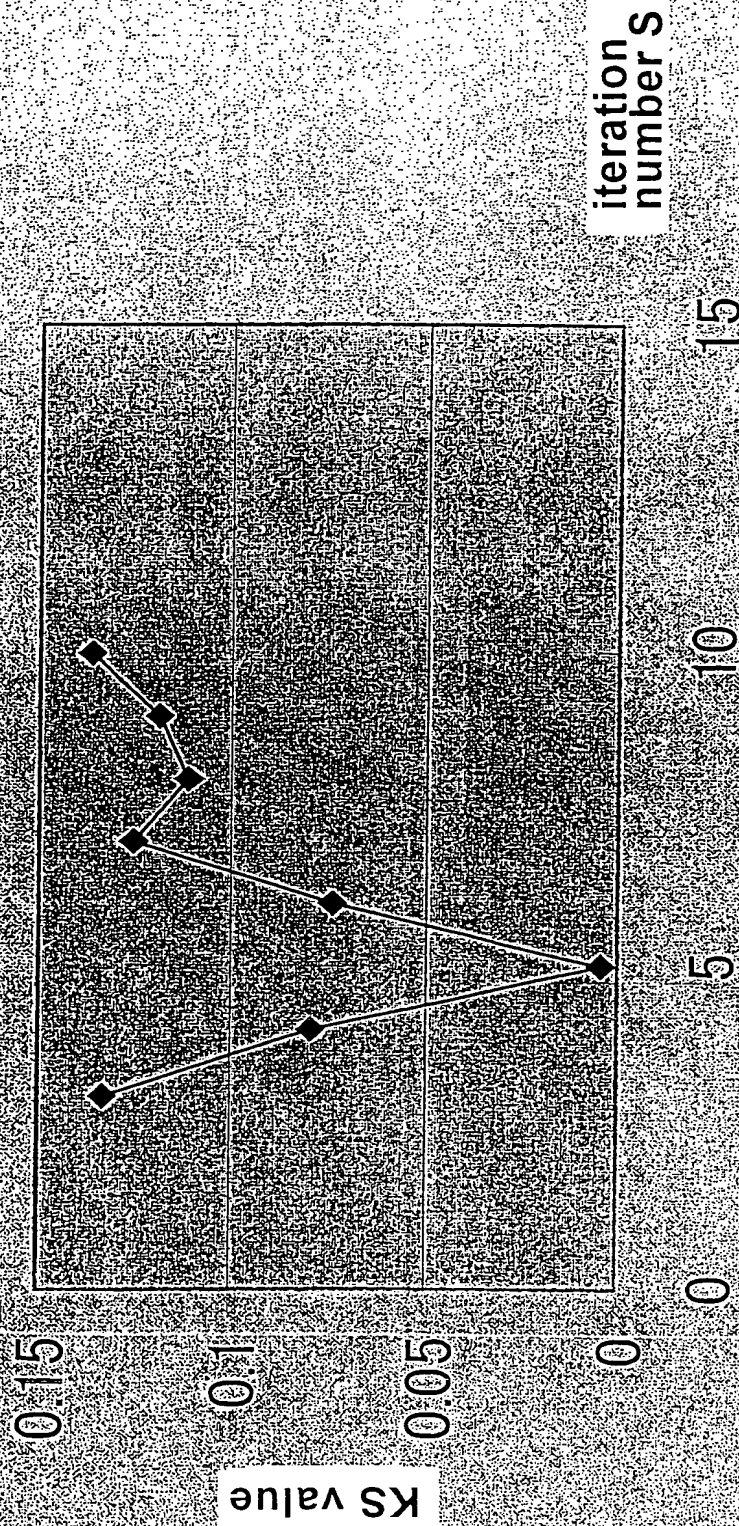


Figure 7 a Estimation of S  
(same parameters, true S=5)

Item 1  
of Data 1



10/529263

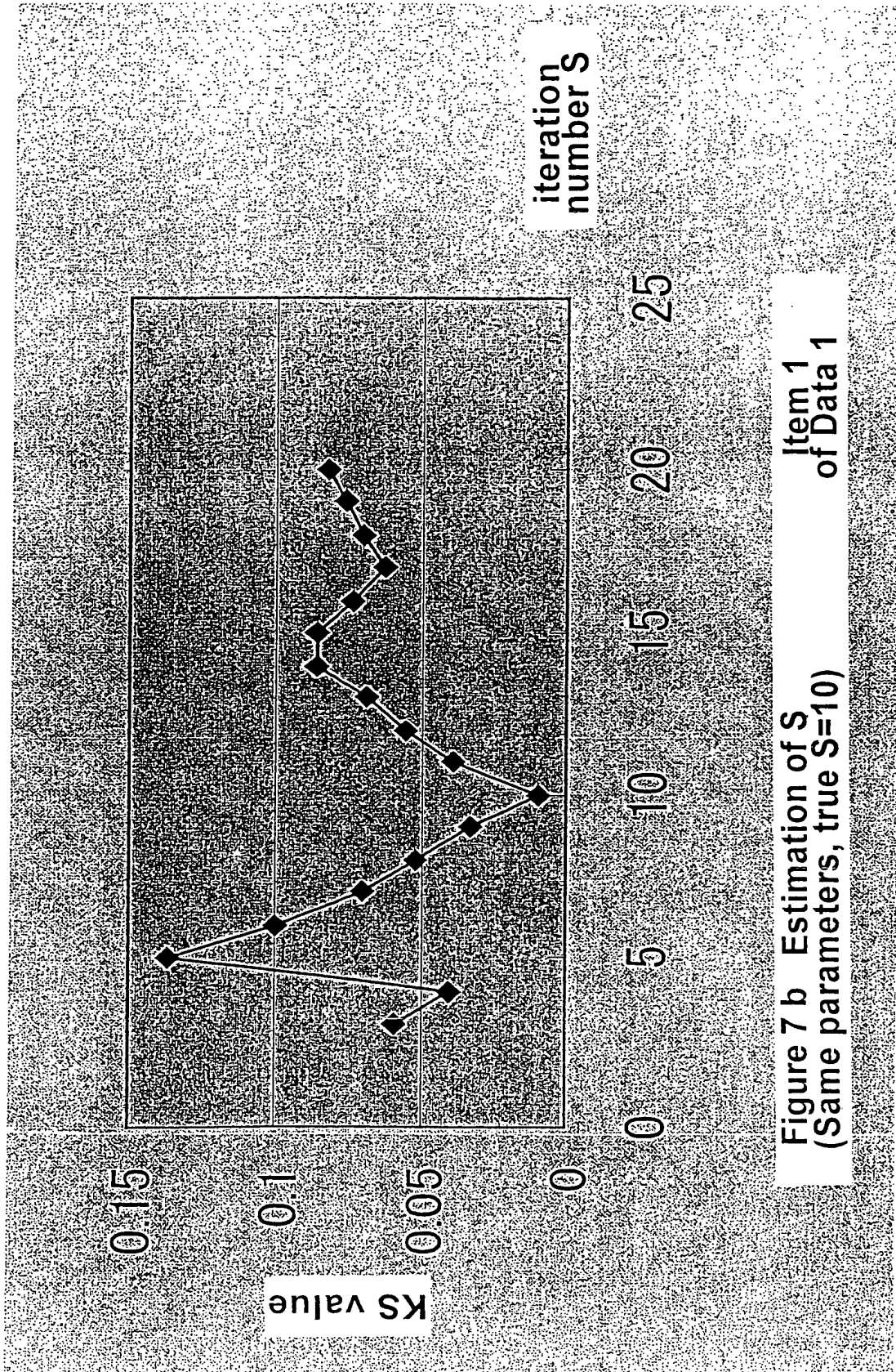


Figure 7 b Estimation of S  
(Same parameters, true S=10)  
Item 1  
of Data 1

10/529263

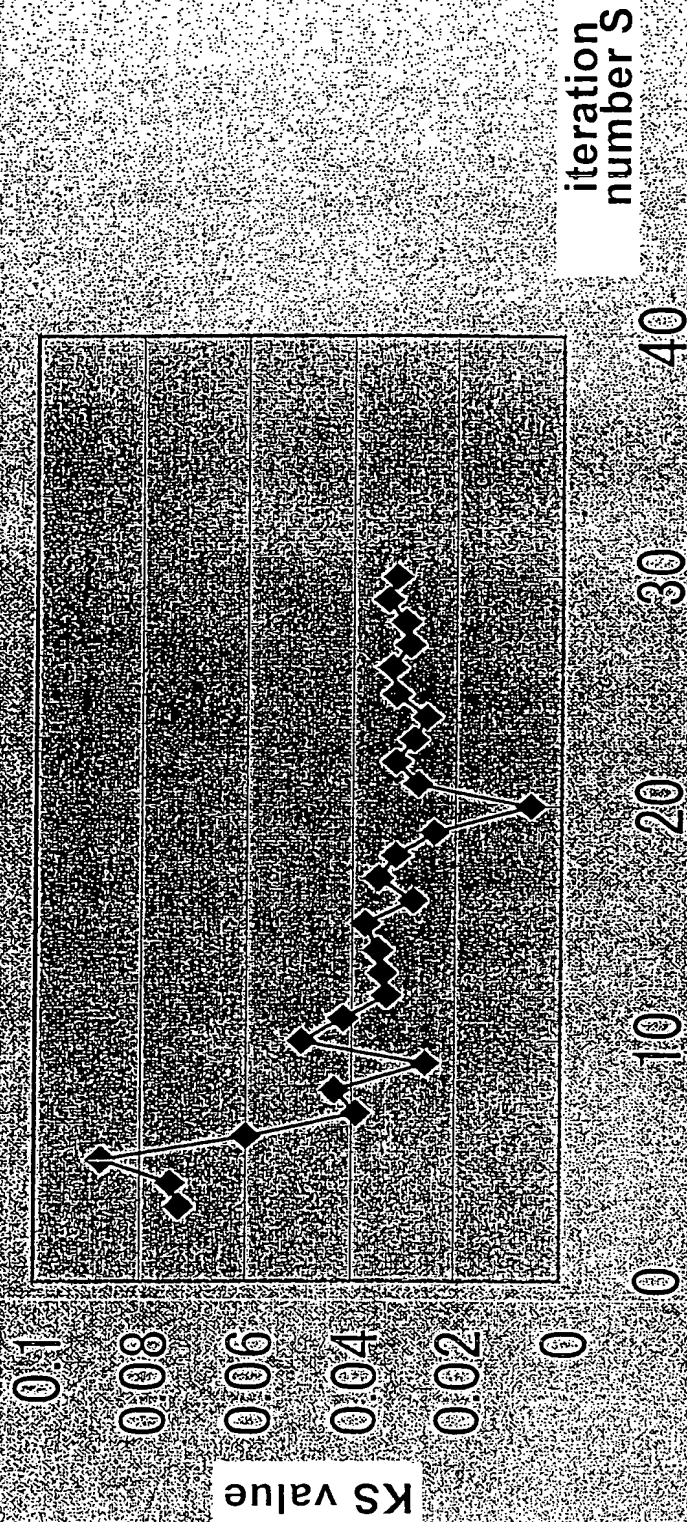


Figure 7 c Estimation of S  
(Same parameters, true S=20)

Item 1  
of Data 1

10/529263

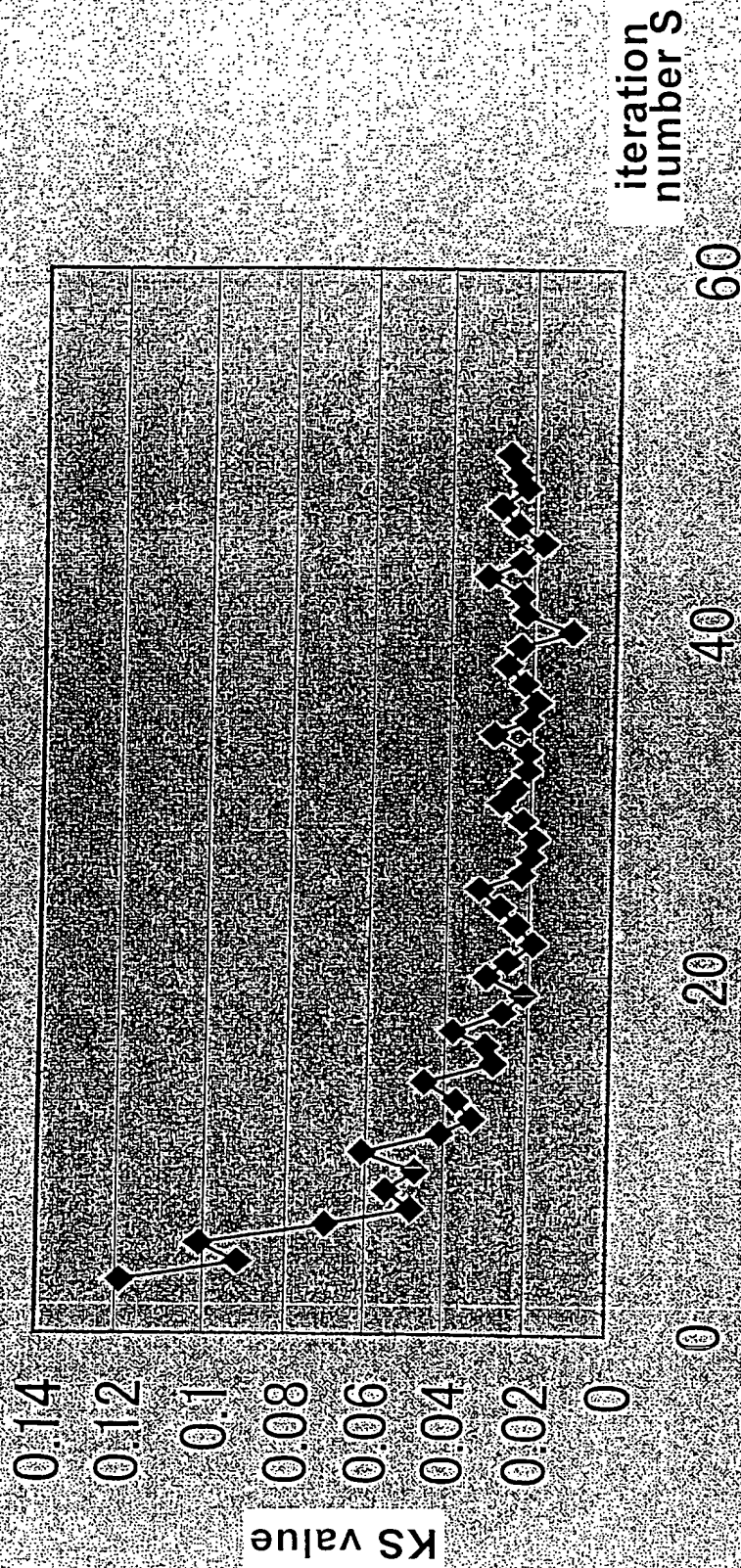


Figure 7 d Estimation of S  
(Same parameters, true S=40)

Item 1  
of Data 1



10/529263

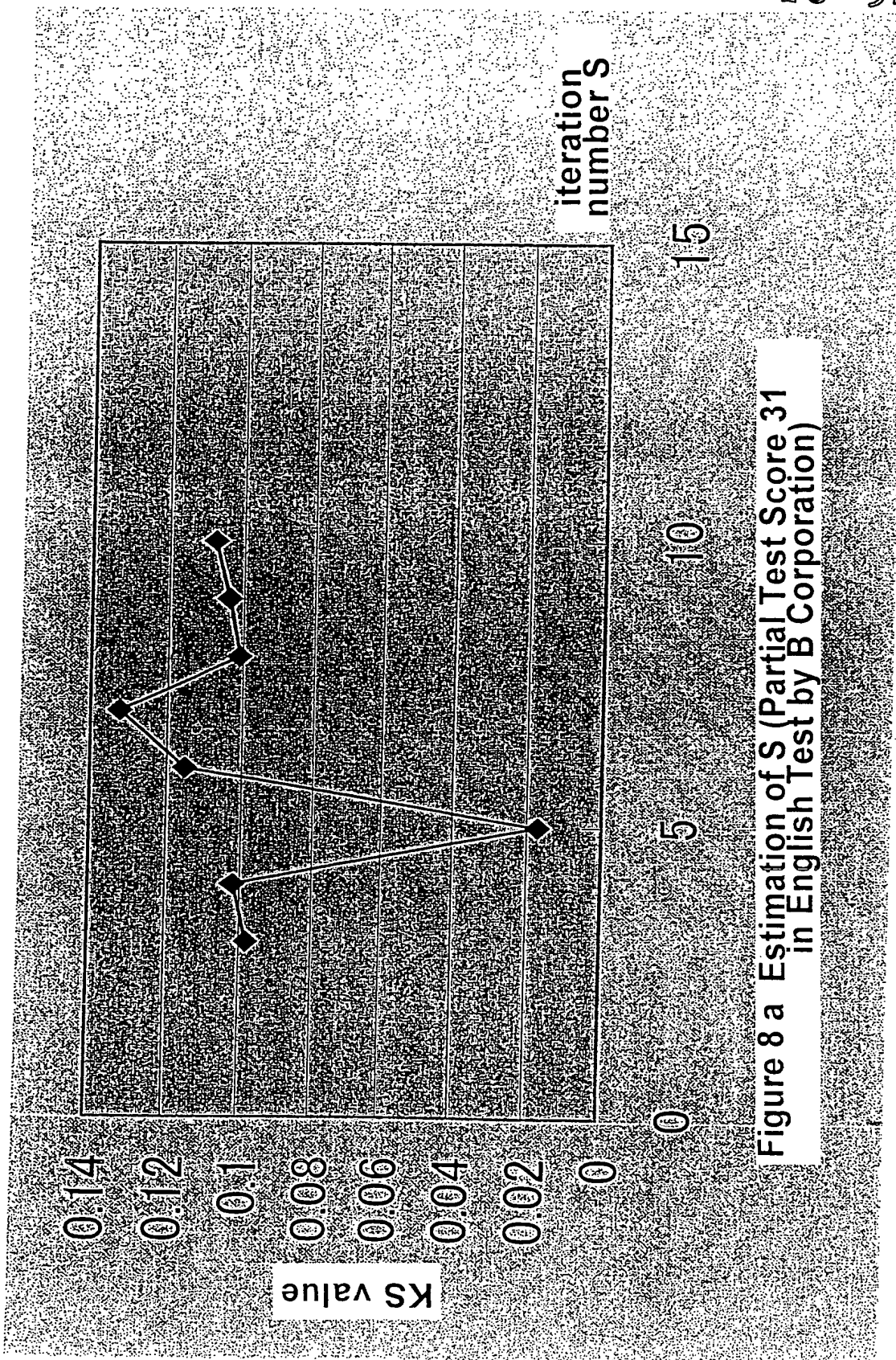


Figure 8 a Estimation of S (Partial Test Score 31  
in English Test by B Corporation)

10/529263

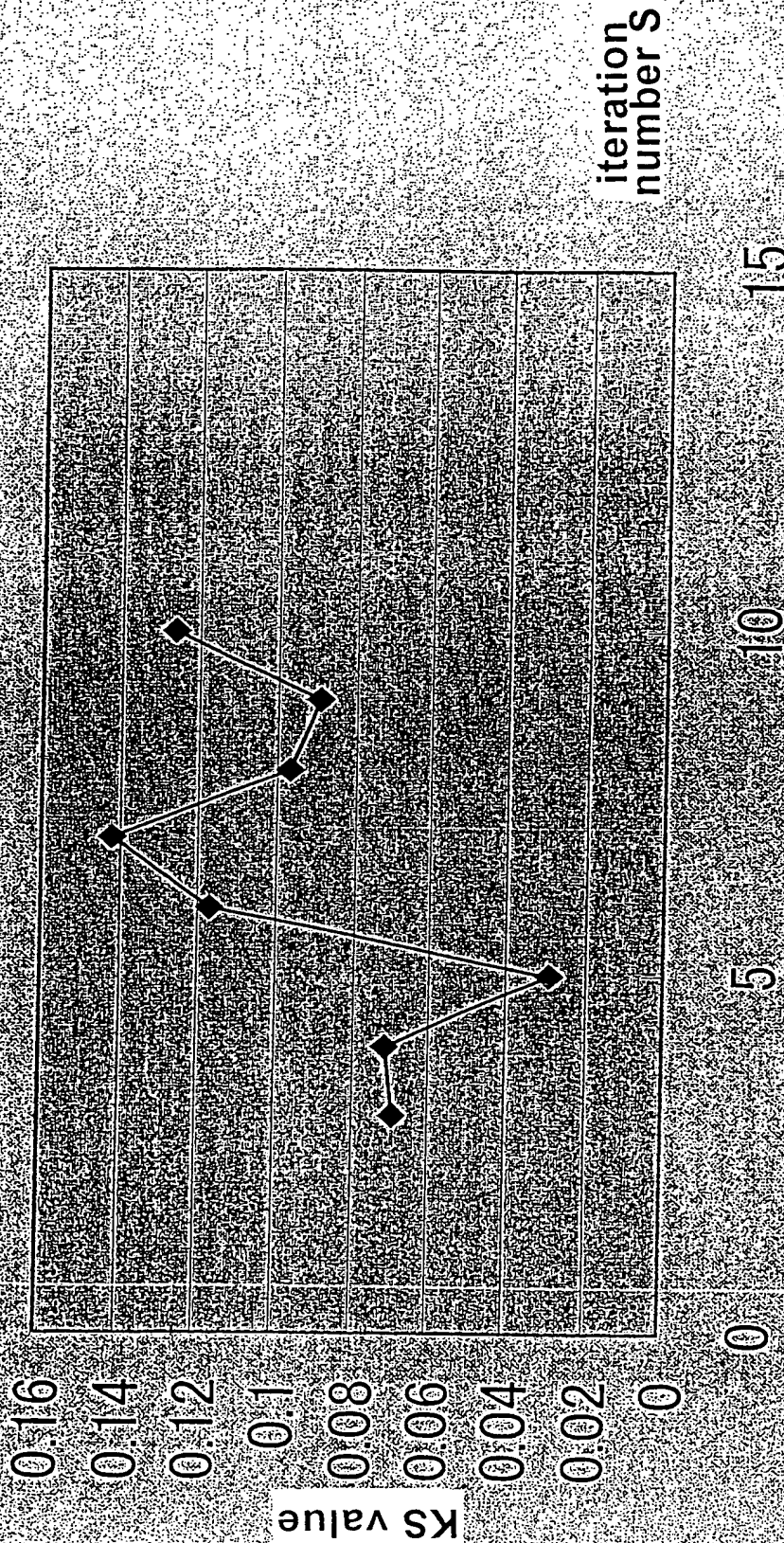


Figure 8 b Estimation of S (Partial Test Score 32  
in English Test by B Corporation)